

CLAIMS

1. (Currently amended) A handheld Multi-Function Peripheral (MFP), comprising:
a single housing;
an operation panel at the housing for a user to input a data and a scanning order;
~~a control processing unit at least partially in the housing and electrically connected to the operation panel for directing logic operation and data processing, and receiving the scanning order; and~~
a scanning apparatus at least partially in the housing ~~and electrically connected to the control processing unit for scanning a to-be-scanned document, the control processing unit being~~ capable of controlling ~~the~~ a scanning operation ~~of the scanning apparatus~~ after receiving the scanning order, the scanning apparatus comprising:
a scanning channel configured as a passage in the single housing ~~for the~~ a to-be-scanned document;
~~a light source equipped in a side of the scanning channel to provide the light for scanning; and~~
~~a photoelectronic imaging device equipped in the side of the scanning channel to capture an image of the to-be-scanned document;~~
wherein the scanning channel and the operation panel respectively lie in substantially parallel planes and substantially overlap one another in a direction substantially perpendicular to the substantially parallel planes.
2. (Previously Presented) The handheld Multi-Function Peripheral according to claim 1 further comprising a Personal Digital Assistant (PDA).
3. (Previously presented) The handheld Multi-Function Peripheral according to claim 2, wherein the PDA further comprises a display for showing the data and the scanning condition.
4. (Previously presented) The handheld Multi-Function Peripheral according to claim 3, wherein the display comprises a touch screen integrated with a Liquid Crystal Display (LCD).

5. (Currently amended) The handheld Multi-Function Peripheral according to claim 4, wherein the PDA further comprises a stylus, which is removably ~~equipped~~ positioned on the PDA, for touching the display to input the data and give the scanning order, and the image is capable of being edited on the PDA after scanning.

6. (Original) The handheld Multi-Function Peripheral according to claim 2, wherein the PDA further includes a control button for the user to input the data and give the scanning order.

7. (Previously Presented) The handheld Multi-Function Peripheral according to claim 1 further comprising a calculator.

8. (Previously presented) The handheld Multi-Function Peripheral according to claim 7, wherein the calculator further includes a display for showing the data and the scanning condition.

9. (Previously presented) The handheld Multi-Function Peripheral according to claim 8, wherein the display comprises a Liquid Crystal Display (LCD).

10. (Original) The handheld Multi-Function Peripheral according to claim 8, wherein the calculator further includes a key part for the user to input the data and give the scanning order.

11. (Previously presented) The handheld Multi-Function Peripheral according to claim 1, wherein the light source comprises a Light Emitting Diode (LED).

12. (Previously presented) The handheld Multi-Function Peripheral according to claim 1, wherein the photoelectronic imaging device comprises a Charged Coupled device (CCD).

13. (Previously presented) The handheld Multi-Function Peripheral according to claim 1, wherein the photoelectronic imaging device comprises a Contact Image Device (CIS).

14. (Previously presented) The handheld Multi-Function Peripheral according to claim 1, wherein the scanning apparatus further comprises a transmission mechanism for transmitting the to-be-scanned document in the scanning channel.

15. (Previously presented) The handheld Multi-Function Peripheral according to claim 14, wherein the transmission mechanism includes a plurality of one or more rollers.

16. (Previously presented) The handheld Multi-Function Peripheral according to claim 1, wherein the to-be-scanned document comprises a business card.

17. (Currently amended) An apparatus, comprising:
a single housing;
an operation panel at the housing for a user to input a data and a scanning order;
a control processing unit at least partially in the housing and electrically connected to the operation panel for directing logic operation and data processing, and receiving the scanning order;
and
a scanning apparatus at least partially in the housing and electrically connected to the control processing unit for scanning a to-be-scanned document, the control processing unit being capable of controlling the scanning operation of the scanning apparatus after receiving the scanning order, the scanning apparatus comprising:
a scanning channel for the to-be-scanned document;
a light source ~~equipped~~ positioned in a side of the scanning channel to provide the light for scanning; and
a photoelectronic imaging device ~~equipped~~ positioned in the side of the scanning channel to capture image of the to-be-scanned document;
wherein the scanning channel and the operation panel respectively lie in substantially parallel planes and substantially overlap one another in a direction substantially perpendicular to the substantially parallel planes and wherein the scanning apparatus is capable of scanning concurrently two sides of the to-be-scanned documents.

18. (Canceled)

19. (Currently amended) ~~An~~ The apparatus as ~~claimed in~~ according to claim 17, the operation panel being capable of displaying the to-be-scanned document in response to the scanning operation.

20. (Currently amended) ~~An~~ The apparatus as ~~claimed in~~ according to claim 17, the operation panel being capable of receiving an input from a user to control the scanning operation.

21. (New) The apparatus according to claim 17 further comprising a second light source and a second photoelectronic imaging device located on an opposite side of the scanning channel as the light source and the photoelectric imaging device.

22. (New) The apparatus according to claim 21 wherein the second photoelectronic imaging device is configured to capture a second image located on an opposite side of the to-be scanned document, both the image and the second image being captured concurrently.

23. (New) The handheld Multi-Function Peripheral according to claim 1 further comprising two photoelectronic imaging devices located on opposite sides of the scanning channel, wherein the scanning apparatus is capable of concurrently scanning the opposite sides of the to-be-scanned document.

24. (New) The handheld Multi-Function Peripheral according to claim 23 wherein both the opposite sides are concurrently scanned while the document is transmitted through the scanning channel, from a first end of the MFP to a second end of the MFP opposite the first end.

25. (New) An apparatus comprising:
means for entering a scanning job;
means for transmitting a document through a scanning channel;
means for scanning a first image located on a first side of the document; and

means for scanning a second image located on a second side of the document, opposite the first side, wherein the first and second images are concurrently scanned.

26. (New) The apparatus according to claim 25 wherein the apparatus is a hand-held multi-function peripheral.

27. (New) The apparatus according to claim 25 wherein the means for entering the scanning job is located directly above the scanning channel.

28. (New) The apparatus according to claim 25 wherein the scanning channel is oriented under the means for entering a scanning job in an approximately horizontal plane.

29. (New) The apparatus according to claim 28 wherein the scanning channel is configured to transmit the document from a first end of the apparatus and out a second end of the apparatus opposite the first end.

30. (New) The apparatus according to claim 28 wherein both the first and second images are concurrently scanned while the document is transmitted through the scanning channel in the approximately horizontal plane.